# Important Farmlands

## DOMA AMA GOUNTY, MEW MEXICO







The objective of the Important Farmland Inventory is to identify the extent and location of the best lands capable of producing food, fiber, forage, feed, and oilseed crops in Dona Ana County, New Mexico. This inventory was carried out in cooperation with other agencies at the National, State, and other units of government.

The inventory is not intended to designate specific land uses. This is a prerogative of the responsible state and local officials. The U.S. Department of Agriculture and the Soil Conservation Service (SCS) are concerned, however, about the loss of prime farmlands. It is SCS policy, therefore, to make and keep current an inventory of prime farmland and unique farmland in the Nation.



It is important to emphasize that prime farmland is one of the most important resources of the Nation. This exceptional land can be farmed continuously or nearly continuously without degrading the environment. It responds exceptionally well to fertilizer and other chemical applications with limited loss of residues by leaching or erosion. It is the most responsive to management for maintaining productivity.

The Nation needs to know this information. It provides the basic data for sound management decisions that are needed to protect this important resource base.



## THE MAP

Delineations of land have been made the map. Three delineations show farmla under irrigation. The green areas are prifarmland (65,548 acres), the yellow are are additional farmland of statewi importance (29,479 acres), and the croshatched areas represent other farmland (7 acres).

The white or uncolored areas of the m are classified as "other" land. Most this area is native grassland.

The other map color, light gra represents urban areas.

### **CRITERIA**

The criteria used in identifying important farmland in Dona Ana County are related to soil characteristics and the availability of irrigation water. They were set up to facilitate the inventory of the Nation's most productive farmland in a reasonable time by using existing soil surveys.

The inventories of prime and unique farmlands are dynamic. New areas may be developed, and others will be converted to irreversible uses. Thus, the inventory should be updated periodically to reflect any significant changes.

## **DEFINITION**

#### PRIME FARMLAND

Prime Farmland is land that has the best combination of physical and chemical Characteristics for producing food, feed, forage, fiber, and oilseed crops, and is also available for these uses. The land Could be cropland, pastureland, rangeland, forest land, or other land, but not urban, built-up land or water. It has the soil Quality, growing season, and moisture supply needed to economically produce sustained high yields of crops when treated and managed. This includes water management according to acceptable farming methods. In General, prime farmlands have an adequate dependable water supply Precipitation or irrigation; a favorable temperature and growing season; acceptable \*Cidity or alkalinity; acceptable salt and Odium content; and few or no rocks. They tre permeable to water and air. armlands are not excessively erodible or aturated with water for a long period of ime, and they either do not flood requently or are protected from flooding.

Prime farmland in Dona Ana County, New exico, meets the following criteria:

The soils have an adequate moisture pply. The area has a developed irrigation rstem that is dependable and of adequate ality to meet moisture requirements eight of ten years. The soils have four ches or more available water-holding thin the root zone, if the root zone is so than 40 inches deep.

The soils have a soil temperature ime that is frigid, mesic or thermic. an annual soil temperature at a depth of inches is higher than 32 degrees F.)

The soils have a pH between 4.5 and 8.4 all horizons within a depth of 40 inches in the root zone if the root zone is less 1 40 inches deep.

The soils either have no water table or ater table maintained at a sufficient th during the cropping season to allow the of cultivated crops common to the a.

The soils can be managed in all zons within a depth of 40 inches (or in ot zone if the root zone is less than 40 less deep), so that during part of each the conductivity of saturation extract ess than 4 mmhos/cm and the exchangeable um percentage (ESP) is less than 15.

The soils are not flooded frequently ng the growing season (less often than in two years).

The soils have a product of K dibility factor) x percent slope of less 2.0 and a product of ibility) x C (climatic faeding 60. That is, prime f include soils which have ion hazard.

# ADDITIONAL FARMLAND OF STATEWIDE IMPORTANCE

This is land, in addition to prime ar unique farmlands, that is of statewic importance for the production of food, feed fiber, forage, and oilseed crops. Criteri for defining and delineating this land wer determined by state agencies in New Mexico.

The soils in this category as important to agriculture in New Mexico, ye they exhibit some properties that exclude them from prime farmland. Examples of such properties are erodibility, limited rooting zone, seasonal wetness, or moderate amount of soluble salts. These soils can be farmly satisfactorily by using more fertilized erosion control practices, and irrigation water management. They produce fair to go crop yields when managed properly.

#### OTHER FARMLAND

This land has severe limitations f crop production such as texture, salinit alkalinity, or high water table. The lais marginal, and requires special care.

These lands have been identifi because of their importance in the loc economy.

#### UNIQUE FARMLAND

Unique farmland is land other the prime farmland that is used for the production of specific high value food a fiber crops. It has the special combination of soil quality, location, growing season and moisture supply needed to produce his yields of a specific crop when treated a managed according to modern farming method CARNECIE LED.

managed according to modern farming method CARNEGIE LIBRARY
Unique farmland was not recognized
Dona Ana County. OCT 22 1979

☆U.S. GOVERNMENT PRINTING OFFICE 1973 - SB1 505